

## Contents to volume 60

Computational physics	Issue	Page
Nunn, D. The numerical simulation of VLF nonlinear wave-particle interactions in collision-free plasmas using the Vlasov hybrid simulation technique	1	1
Babalievski, F. and O. Peshev An algorithm to construct quasilattices and study percolation on them	1	27
Brugè, F. and S.L. Fornili Concurrent molecular dynamics simulation of spinodal phase transition on transputer arrays	1	31
Brugè, F. and S.L. Fornili A distributed dynamic load balancer and its implementation on multi-transputer systems for molecular dynamics simulation	1	39
Sararu, A. and M. Sararu Stability of finite linear combinations of vectors under changes of their coefficients. An application to approximation problems	1	47
Küblbeck, J., M. Böhm and A. Denner Feyn Arts - Computer-algebraic generation of Feynman graphs and amplitudes	2	165
Wang, S.C., C.K. Chan and S.P. Li A vectorized algorithm on the ETA-10Q for MD simulation of particles in a box interacting by long-ranged forces	2	181
Ito, T., J. Makino, T. Ebisuzaki and D. Sugimoto A special-purpose $N$ -body machine GRAPE-1	2	187
Morales, J.J. and M.J. Nuevo A technique for improving the link-cell method	2	195
Reale, F., F. Brugè, G. Peres, S.L. Fornili, V. Martorana and S. Serio One-dimensional hydrodynamic modeling of coronal plasmas on transputer arrays	2	201
Degrand, T.A. and P. Rossi Conditioning techniques for dynamical fermions	2	211
Chialvo, A.A. and P.G. Debenedetti On the use of the Verlet neighbor list in molecular dynamics	2	215
Fontenelle, M.T. and J.A.C. Gallas Constants of motion for the KdV and mKdV equations	2	225
Stefanou, N., H. Akai and R. Zeller An efficient numerical method to calculate shape truncation functions for Wigner-Seitz atomic polyhedra	2	231

<b>Computational physics (continued)</b>	<i>Issue</i>	<i>Page</i>
Dyachenko, A.J., A.N. Pushkarev, A.M. Rubenchik and V.F. Shvets A particle model for three-dimensional Langmuir collapse simulation	2	239
Janicki, C. A computer program for the free-free and bound-free Gaunt factors of Rydberg systems	3	281
Rycerz, Z.A. Acceleration of molecular dynamics simulation of order $N$ with neighbour list	3	297
Desalvo, A., G. Erbacci and R. Rosa Vectorized code for the three-dimensional spin-exchange kinetic Ising model on cubic and diamond lattices	3	305
Heermann, D.W., P. Nielaba and M. Rovere Hybrid molecular dynamics	3	311
Lee, D.K. Application of theta functions for numerical evaluation of complete elliptic integrals of the first and second kinds	3	319
 <b>Computer programs in physics</b>		
Rycerz, Z.A. and P.W.M. Jacobs Molecular dynamics simulation program of order $N$ for condensed matter. I. MDPYRS1: scalar pyramid, short-range interactions	1	53
Kermode, J.P. and D. Weaire 2D-FROTH: a program for the investigation of 2-dimensional froths	1	75
Hnatowicz, V., V. Ilyushchenko and P. Kozma GSAP: Fortran code for gamma-spectrum analysis	1	111
Rohmer, M.-M., J. Demuyne, M. Benard, R. Wiest, Chr. Bachmann, C. Henriot and R. Ernenwein A program system for ab initio MO calculations on vector and parallel processing machines. II. SCF closed-shell and open-shell iterations	1	127
Aldea, N. and E. Indrea Fourier analysis of EXAFS and XANES data – a self-contained Fortran program-package – the third version	1	145
Aldea, N. and E. Indrea XRLINE, a program to evaluate the crystallite size of supported metal catalysts by single X-ray profile Fourier analysis	1	155
Bertsch, G. An RPA program for jellium spheres	2	247
Lu, D.R. and K. Park A three-dimensional protein graphic program	2	257
Cecchini, R. and M. Tarlini Symbolic superalgebra manipulations using COMMON LISP	2	265

**Computer programs in physics (continued)***Issue*    *Page*

Dubois, A. and A. Maquet

Subroutines for the evaluation of cross sections of one-photon radiative processes occurring in fast-electron H-atom collisions

2            271

James, F.

A review of pseudorandom number generators

3            329

Marsaglia, G., B. Narasimhan and A. Zaman

A random number generator for PC's

3            345

Lambin, Ph., J.-P. Vigneron and A.A. Lucas

Computation of the surface electron-energy-loss spectrum in specular geometry for an arbitrary plane-stratified medium

3            351

MacLaren, J.M., S. Crampin, D.D. Vvedensky, R.C. Albers and J.B. Pendry

Layer Korringa-Kohn-Rostoker electronic structure code for bulk and interface geometries

3            365

Malegat, L.

DCS - a program for calculating differential cross sections for the electronic excitation of diatomic molecules at fixed nuclei

3            391

Chipaux, R.

MOSPLV, a program for simulation of complex Mössbauer spectra in polycrystalline samples

3            405

Cybenko, G.

Book review

3            417